

I Claim:

1. A method of making an eyeglass capable of compensating low and high order aberrations, the method comprising the steps of:

imaging the patient's eye in order to determine a wavefront

prescription;

selecting a first lens;

coating said first lens with epoxy; and

curing said epoxy on said first lens to match said wavefront

prescription.

2. The method of claim 1 further comprising the steps of:

selecting second lens; and

placing said second lens on said coated surface such that said epoxy is

sandwiched in between the two lenses.

3. A lens comprising:

a constant index of refraction area; and

at least one varying index of refraction area.

4. The lens of claim 3 wherein said varying index of refraction area lies

along the optical axis of the patient and corrects higher order aberrations.

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5. The lens of claim 3 formed with a plurality of zones comprising areas  
2 of varying index of refraction on the lens, and wherein each zone lies along  
the optical axis of the patient for a gazing angle and corrects higher order  
4 aberrations for a first discrete gazing angle.

6. The lens of claim 3 wherein said varying index of refraction lies along  
2 the optical axis of the patient and corrects higher order aberrations for a first  
discrete gazing angle, and wherein said constant index of refraction lies along  
4 the said optical axis of the patient and corrects lower order aberrations for a  
second discrete gazing angle.

7. The lens of claim 3 wherein said constant index of refraction area  
2 corrects for the distant vision, and plurality of zones comprising areas of  
varying index of refraction on the lens, each zone corrects for the near vision  
4 for the patient.

add  
a1

2

8. The lens of claim 3 wherein said varying index of refraction is constructed so as to correct higher order aberrations resulting from damaged retinal tissue.

add  
a2

add B2

FOOTNOTES